UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS

P O Box 1450 Alexandria, Virgima 22313-1450 www.uspto.gov

NOTICE OF ALLOWANCE AND FEE(S) DUE

32914 7590 03/11/2008
GARDERE WYNNE SEWELL LLP
INTELLECTUAL PROPERTY SECTION
3000 THANKSGIVING TOWER
1601 FI M ST

DALLAS, TX 75201-4761

EXAMINER

JACOB, MARY C

ART UNIT PAPER NUMBER

DATE MAILED: 03/11/2008

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/603,055	06/24/2003	Gianluca Blasi	32079-00087USPX	8552

TITLE OF INVENTION: TEST BENCH GENERATOR FOR INTEGRATED CIRCUITS, PARTICULARLY MEMORIES

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	06/11/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 1SI. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FFE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

appropriate. All further indicated unless corrects maintenance fee notifica	correspondence includir ed below or directed oth	ig the Patent, advance on herwise in Block 1, by (a	ders and notification of r specifying a new corres	naintenance fees wil spondence address; a	be mailed to the current nd/or (b) indicating a sep	t correspondence address as arate "FEE ADDRESS" for
	ENCE ADDRESS (Note: Use Bi	ock 1 for any change of address)	Noti Feet paps	e: A certificate of m (s) Transmittal. This ers. Each additional p	ailing can only be used for certificate cannot be used aper, such as an assignment for mailing or transmission	or domestic mailings of the for any other accompanying ent or formal drawing, must
INTELLECTUA 3000 THANKS	7590 03/11 YNNE SEWELL AL PROPERTY SEGIVING TOWER	LLP	Lbe	Certify	icate of Mailing or Trans Fee(s) Transmittal is bein	
1601 ELM ST DALLAS, TX 7	5201-4761					(Depositor's name)
						(Signature)
						(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	/	TTORNEY DOCKET NO.	CONFIRMATION NO.
10/603,055 TITLE OF INVENTION	06/24/2003 T: TEST BENCH GENER	RATOR FOR INTEGRA	Gianluca Blasi TED CIRCUITS, PARTIC	ULARLY MEMORI	32079-00087USPX ES	8552
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE I	EE TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	06/11/2008
EXAM	IINER	ART UNIT	CLASS-SUBCLASS	1		
JACOB, I	MARY C	2123	703-015000	•		
1. Change of correspondence address or indication of "Fee Address" (37) CTR 1.363). Change of correspondence address for Change of Correspondence Address from PTO/SB/122 statched. Club change of correspondence address for Change of Correspondence Address from PTO/SB/122 statched. Club change of a single firm theying as a member a registered autoracy or agent) and the names of up to PTO/SB/17, Rev U-50-22 or time recent) statched. Lise of a Cardomer PTO/SB/17, Rev U-50-22 or time recent) statched. Lise of a Cardomer PTO/SB/17, Rev U-50-22 or time recent) statched. Lise of a Cardomer PTO/SB/17, Rev U-50-22 or time recent) statched. Lise of a Cardomer PTO/SB/17, Rev U-50-22 or time recent) statched. Lise of a Cardomer PTO/SB/17, Rev U-50-22 or time recent) statched. Lise of a Cardomer PTO/SB/17, Rev U-50-22 or time recent statched. Lise of a Cardomer PTO/SB/17, Rev U-50-22 or time recent statched. Lise of a Cardomer PTO/SB/17, Rev U-50-22 or time recent statched. Lise of a Cardomer PTO/SB/17, Rev U-50-22 or time recent statched. Lise of a Cardomer PTO/SB/17, Rev U-50-22 or time recent statched. Lise of a Cardomer PTO/SB/17, Rev U-50-22 or time recent statched. Lise of a Cardomer PTO/SB/17, Rev U-50-22 or time recent statched. Lise of a Cardomer PTO/SB/17, Rev U-50-22 or time recent statched. Lise of a Cardomer PTO/SB/17, Rev U-50-22 or time recent statched. Lise of a Cardomer PTO/SB/17, Rev U-50-22 or time recent statched. Lise of a Cardomer PTO/SB/17, Rev U-50-22 or time recent statched. Lise of a Cardomer PTO/SB/17, Rev U-50-22 or time recent statched. Lise of a Cardomer PTO/SB/17, Rev U-50-22 or time recent statched. Lise of a Cardomer PTO/SB/17, Rev U-50-22 or time recent statched. Lise of a Cardomer PTO/SB/17, Rev U-50-22 or time recent statched. Lise of a Cardomer PTO/SB/17, Rev U-50-22 or time recent statched. Lise of a Cardomer PTO/SB/17, Rev U-50-22 or time recent statched. Lise of a Cardomer PTO/SB/17, Rev U-50-22 or time recent statched. Lise of a Cardomer PTO/SB/17, Rev U-50				name is 3		
(A) NAME OF ASSIG	GNEE	fied below, no assignee sletion of this form is NO categories (will not be pr	(B) RESIDENCE: (CITY	and STATE OR CO	UNTRY)	ocument has been filed for
4a. The following fee(s) Issue Fee Publication Fee (N Advance Order	vo small entity discount p		D. Payment of Fee(s): (Plea A check is enclosed. Payment by credit car The Director is hereby overpayment, to Depo	d. Form PTO-2038 i	s attached.	shown above) eficiency, or credit any on extra copy of this form).
	s SMALL ENTITY state	s. See 37 CFR 1.27.			ENTITY status. See 37 C	
NOTE: The Issue Fee an interest as shown by the	d Publication Fee (if req records of the United Sta	iired) will not be accepted tes Patent and Trademark	d from anyone other than t Office.	he applicant; a registe	ered attorney or agent; or t	he assignee or other party in
Authorized Signature				Date		
Typed or printed name				Registration No.		
This collection of inform an application. Confiden submitting the complete this form and/or suggests Box 1450, Alexandria, V Alexandria, Virginia 223	nation is required by 37 C tiality is governed by 35 d application form to the ions for reducing this but 'irginia 22313-1450. DC k13-1450.	FR 1.311. The informatic U.S.C. 122 and 37 CFR USPTO. Time will vary den, should be sent to the ONOT SEND FEES OR (on is required to obtain or r 1.14. This collection is est depending upon the indiv e Chief Information Office COMPLETED FORMS TO	etain a benefit by the imated to take 12 mi idual case. Any com er, U.S. Patent and Ti D THIS ADDRESS.	public which is to file (an nutes to complete, includi ments on the amount of ti ademark Office, U.S. Dep SEND TO: Commissioner	d by the USPTO to process) ng gathering, preparing, and me you require to complete sartment of Commerce, P.O. for Patents, P.O. Box 1450,

OMB 0651-0033 PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.



DALLAS, TX 75201-4761

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS

P O Box 1450 Alexandria, Virgima 22313-1450 www.uspto.gov

APPLICATION NO.		FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/603,055		06/24/2003	Gianluca Blasi	32079-00087USPX	8552	
32914	7590	03/11/2008		EXAMINER		
GARDERE V	YNNE	SEWELL LLP		JACOB, MARY C		
				PAPER NUMBER		
3000 THANKSGIVING TOWER 1601 ELM ST				2123		
			DATE MAILED: 03/11/2008			

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 571 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 571 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Notice of Allowability

Application No.	Applicant(s)	
10/603,055	BLASI ET AL.	
Examiner	Art Unit	
MARY C IACOR	2123	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address-All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included
herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS
NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative
of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

- This communication is responsive to amendments filed 12/13/07.
- 2. The allowed claim(s) is/are 1,3,5-8,10,12-16,18,19,21-23,25,26 and 28.
- 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☑ All b) ☐ Some* c) ☐ None of the:
 - 1. A Certified copies of the priority documents have been received.
 - 2. Certified copies of the priority documents have been received in Application No. _____
 - Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
 - * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDOMMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

- 4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
- 5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) Thereto or 2) to Paper No./Mail Date
 - (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying Indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- 1. Notice of References Cited (PTO-892)
- 2. Notice of Draftperson's Patent Drawing Review (PTO-948)
- 3. Information Disclosure Statements (PTO/SB/08),
- 5. Notice of Informal Patent Application
- Interview Summary (PTO-413), Paper No./Mail Date .
- 7. X Examiner's Amendment/Comment
- 8. X Examiner's Statement of Reasons for Allowance
- Other .

Application/Control Number: 10/603,055

Art Unit: 2123

DETAILED ACTION

 The response filed 12/13/07 has been received and considered. Claims 1, 3-8, 10-28 are presented for examination.

EXAMINER'S AMENDMENT

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Andre Szuwalski (Reg. No. 35,701) on 2/19/08.

The application has been amended as follows:

Claim 1, line 15, the phrase "each of the selected test types" was changed to -the selected test type--.

Claim 4 has been cancelled

Claim 7, line 2, the word "tests" has been changed to the phrase –the test type--.

Claim 8, line 14, the phrase, "each of the selected test types" was changed to – the selected test type--.

Claim 11 has been cancelled.

Claim 14, line 2, the word "tests" has been changed to the phrase -the test type-.

Application/Control Number: 10/603,055 Page 3

Art Unit: 2123

Claim 17 has been cancelled.

Claim 20 has been cancelled.

Claim 24 has been cancelled.

Claim 27 has been cancelled.

Specification

 The objection to the Abstract recited in the 9/17/07 Office Action has been withdrawn in view of the amendments filed 12/13/07.

Claim Rejections - 35 USC § 112

 The rejections of the claims under 35 U.S.C. 112, second paragraph recited in the 9/17/07 Office Action have been withdrawn in view of the amendments to the claims filed 12/13/07.

Allowable Subject Matter

- 5. Claims 1, 3, 5-8, 10, 12-16, 18, 19, 21-23, 25, 26 and 28 are allowed.
- 6. The following is an examiner's statement of reasons for allowance: While Zarrineh et al ("Automatic Generation and Validation of Memory Test Models for High Performance Microprocessors", Proceedings of the 2001 International Conference on Computer Design, pages 526-429, 23-26 Sept, 2001) teaches automated memory model generation and validation, Kebichi et al (US Patent 6,671,843) teaches a method for providing an algorithm to a BIST controller that test memory that includes

Application/Control Number: 10/603,055

Art Unit: 2123

associating an in-memory representation of a user defined algorithm to a selected memory model and Bollano et al ("The Virtual Intellectual Property Library: From Paradigm to Product", Proceedings of IP99 Conference, Santa Clara, March 1999) teaches a library of memory models where behavior data of the memory models is specified in a proprietary language, none of these references taken either alone or in combination with the prior art of record disclose a test bench generator for an integrated circuit memory model or integrated circuit designs, specifically including:

(claims 1, 8) "...a repository storing memory models catalogued according to memory type, number or ports and synchronous/asynchronous functional operation along with a test type associated with each memory model..." and "...select the test type from the repository based on a match between the entered configuration data of the memory model under test and the catalogued memory models from said repository..."

(claims 15, 22) "...a repository which stores functional and structural characteristic data for integrated circuit models along with a test associated with each circuit model" and ... "compare the specific integrated circuit model to characteristic data in the repository to identify tests applicable to that specific integrated circuit model...",

in combination with the remaining elements and features of the claimed invention. It is for these reasons that applicant's invention defines over the prior art of record.

Application/Control Number: 10/603,055

Art Unit: 2123

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Response to Arguments

7. Applicant's arguments, see specifically, pages 12-14, filed 12/13/07, with respect to "storing data...for integrated circuit models along with a test associated with each circuit model" and "...selecting from the associated/stored tests based on a comparison or matching..." have been fully considered and are persuasive. The rejection of the claims as being unpatentable over Zarrineh et al in view of Kebichi et al has been withdrawn.

Conclusion

 Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mary C. Jacob whose telephone number is 571-272-6249. The examiner can normally be reached on Tuesday-Thursday 7AM-4PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Paul Rodriguez can be reached on 571-272-3753. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/603,055 Page 6

Art Unit: 2123

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Mary C Jacob/ Examiner, Art Unit 2123

/M. C. J./ 2/21/08

/Paul L Rodriguez/

Supervisory Patent Examiner, Art Unit 2123